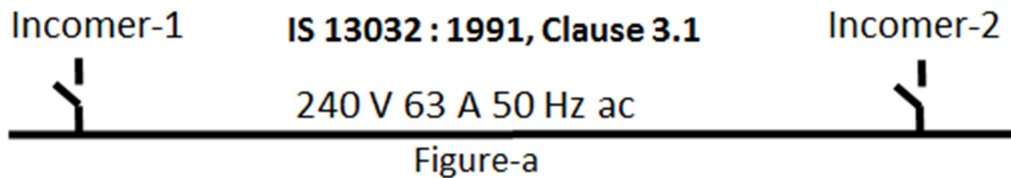


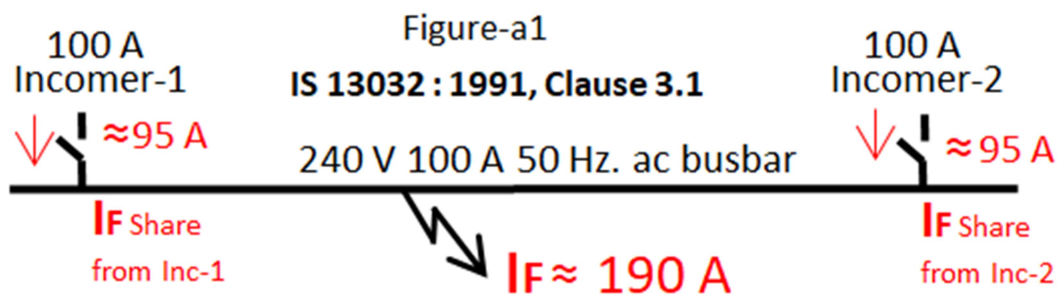
I. **IS 13032 : 1991 clause 3.1 Miniature Circuit- Breaker Board**

specification lines 1-4 read as below: (see bolded/underlined part)

“An enclosure containing bus bars and miniature circuit-breaker for the purpose of protecting, controlling or connecting more than one outgoing circuit **fed from one or more incoming circuits**”.



1. More than one incomer connecting to the same Bus bar of the Miniature Circuit-Breaker Distribution Board (MCBDB) will increase the fault level KVA/MVA rating of the bus bar in that MCBDB and during any external fault, progressively will increase the heating effect towards electrical fire hazards (refer figure-a).



2. In case of a bus bar fault, both incomers 1 and 2 must trip to isolate the fault. If the fault current is less than the combined capacity of the two incomers, fault current will continue to feed towards the undesired event of electrical fire hazard (refer Figure-a1).

**IS 13032 : 1991**  
**Recommended Changes**  
**(To be added shown bolded/underlined)**

I. 3.1 Miniature Circuit- Breaker Board

An enclosure containing bus bars, miniature circuit-breaker (MCB) **and residual current circuit-breaker (RCCB)** for the purpose of protecting, controlling or connecting **each** outgoing circuit fed from one or more incoming circuits **through manual change over**. Miniature Circuit-Breaker Boards are also known as miniature Circuit-Breaker Distribution Boards (MCBDB) or MCB Boards.

II. 3.2 MCB Way

The part of the MCB board comprising a Miniature Circuit-Breaker **and residual current circuit-breaker (RCCB)** connected to **each** circuit.

III. 3.2 MCB Way NOTES-1

The neutral **must** form part of the MCB way.

IV. 3.5 Neutral of an MCB Board

Provided with terminals (and if required links) for connection to the neutral conductor of **each** outgoing and incoming circuit of distribution system.

V. 6.1 Preferred rated voltage

The preferred rated voltage **is 240 V for all out going and 240 V or 415 V for incoming.**

VI. 9.1.2 Routine Tests

Another routine test at place of installation is required for ensuring **MCB, RCCB and each circuit function test reports.**